

LOW-VOLTAGE BANDGAP REFERENCE CIRCUIT**ABSTRACT**

[0020] A system and method is disclosed for providing a bandgap reference voltage generator that can successfully operate with a low operating voltage. Three current sources are controlled to provide same amount of current through three paths. The first current source is used to enable a first negative temperature coefficient module, while the second and third current sources are used to enable a first positive temperature coefficient module. The three current sources together are used to enable a reference voltage output module, which is connected to a current summing module for producing a bandgap reference voltage independent of temperature variations.